



		Time	Path	Path	Numb			nated	September 1999
		Local/	Length	Width	Pers	sons	Dan	nage	
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm

Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property Crops	S Character of Storm
CONNECTICUT, N	<u>lortheast</u>							
CTZ002	Hartf	ord						
	07 09	0000EST 2359EST			0	0		Record Warmth
	The lo	rd warm low tempor ow temperature of degrees broke the	71 degrees o	n the 7th bro	ke the prev	ious recor	-	ndsor Locks. hich was set in 1943. On the 8th, the low w of 70 degrees tied the record which was
Hartford County								
Bristol	10	0700EST 1900EST			0	0		Heavy Rain
<b>Tolland County</b>								
Stafford	10	0700EST 1900EST			0	0		Heavy Rain
Windham County								
Ashford	10	0700EST 1900EST			0	0		Heavy Rain
	Conno includ	ecticut. The heavi	est rain fell in Bristol. Am	n Hartford Co ounts elsewh	ounty, west ere average	of the Cord between	nnecticut River, who 2 and 3 inches. N	resulted in heavy rainfall across northern nere totals of up to 4 inches were reported, to flooding was reported. The rainfall total
CTZ002-002	Hartf	ord						
	<b>16</b> <b>19</b> Farmi	0313EST 1946EST ington River			0	0		Flood
Hartford County								
Countywide	16 17	1400EST 1300EST			0	0		Heavy Rain
<b>Tolland County</b>								
Countywide	16 17	1400EST 1300EST			0	0		Heavy Rain
Windham County								
Countywide	16 17	1400EST 1300EST			0	0		Heavy Rain
Hartford County								
Southington	16 18 Quinr	1640EST 0443EST nipiac River			0	0		Flood
Hartford County								
Burlington	<b>16</b> <b>17</b> Burlir	1817EST 0231EST ngton Brook			0	0		Flood
CTZ002>004	Hartf 16 17	ord - Tolland - W 2000EST 0300EST	'indham		0	0		Strong Wind

16 2000EST 17 1000EST North Branch Park River

**Hartford County** 

Hartford

Tropical Storm Floyd brought torrential rainfall and strong winds to northern Connecticut, as it tracked up the Connecticut River valley into central Massachusetts. Although many areas received torrential rainfall, with totals between 4 and 8 inches, the heaviest rain fell in western Hartford County where as much as 10.80 inches was reported in Bristol. The rainfall produced widespread flooding of low lying areas, especially in Hartford County. Smaller rivers such as the Quinnipiac, North Branch Park, and Burlington Brook rose rapidly out of their banks as the heavy rain arrives late in the afternoon and early in the evening on the 16th.

Flood





Time Path Path Number of Estimated September 1999

Local/ Length Width Persons Damage

Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

#### **CONNECTICUT**, Northeast

Crests of 2 to 3 feet above flood stage occurred by daybreak on the 17th. The Farmington River went into flood at Unionville from 11 pm on the 16th to 413 am on the 17th, cresting a foot above flood stage at 1 am on the 17th. At Simsbury, the Farmington went into flood at 715 am on the 17th and crested about a foot over flood stage at 930 pm on the 17th, before returning to its banks at 215 pm on the 18th. The longer responding Connecticut River rose out of its banks in Hartford at 1259 am on the 18th, and crested at 17.2 feet at 130 pm on the 19th, which is about a foot over its 16 foot flood stage. It returned to its banks at 132 am on the 19th. Farther downstream at Middletown, the Connecticut went into flood at 1050 am on the 18th, and crested at 8.8 feet at 1115 am on the 19th, almost a foot above its 8 foot flood stage. It returned to its banks at 846 pm that same day. Surprisingly, no flood damage was reported, even in those areas where the smaller rivers rose rapidly.

Strong winds were also felt in northern Connecticut as Floyd passed. There were scattered reports of small trees or branches downed, which did not cause significant damage.

#### **MASSACHUSETTS, Central and East**

MAZ012-015>016	Southern	Worcester -	Suffolk.	Factorn	Norfolk
MAZ012-013/010	Southern	Worcester -	· Sumoik ·	- Lastern	MOLIOIR

07 0000EST 0 0 Record Warmth

Record warm minimum temperatures were set at the Blue Hill Observatory in Milton, and in Boston and Worcester. On the 7th, the low temperature of 70 degrees at the Blue Hill Observatory broke the previous record high minimum temperature of 68 degrees, which was set in 1943

Low temperatures at the Blue Hill Observatory only fell to 69 degrees on the 8th and 9th, which broke the previous record warm minimum temperatures of 68 degrees in 1943, and 68 degrees in 1936, respectively.

At Logan International Airport in Boston, the low temperature of 71 degrees on the 8th tied the record warm minimum temperature which was set in 1945, while the low of 72 degrees on the 9th broke the previous record warm minimum temperature of 70 degrees set in 1884.

In Worcester, low temperatures fell to 69 degrees on both the 8th and the 9th. This tied the record warm minimum temperatures for both dates, which were set in 1915.

Bristol County Norton	10	0700EST 1900EST	0	0	Heavy Rain
Essex County					
Manchester	10	0700EST 1900EST	0	0	Heavy Rain
Hampden County					
Wilbraham	10	0700EST 1900EST	0	0	Heavy Rain
Middlesex County					
Wayland	10	0700EST 1900EST	0	0	Heavy Rain
Norfolk County					
Franklin	10	0700EST 1900EST	0	0	Heavy Rain
Suffolk County					
(Bos)Logan Intl Arpt	10	0700EST 1900EST	0	0	Heavy Rain
Worcester County					
Blackstone	10	0700EST 1900EST	0	0	Heavy Rain



**Boston** 

2300EST 0300EST

### National Weather Service Storm Data and Unusual Weather Phenomena



Flash Flood

		Time Local/	Path Length	Path Width		ber of		nated nage	September 1999
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
MASSACHUSETTS	, Central	and East							
Middlesex County									
Newton to Framingham	10	1845EST 2100EST			0	0			Flash Flood
<b>Suffolk County</b>									

A slow moving cold front, combined with a plume of tropical moisture moving in from the south, combined to bring heavy rainfall to much of central and eastern Massachusetts. The heaviest rainfall was centered along the Interstate 495 corridor in Norfolk, Worcester, and Middlesex Counties where totals of 5 to 6 inches were common. As much as 6.60 inches fell in Franklin. Totals elsewhere generally averaged between 3 and 5 inches.

The heavy rain caused significant urban and poor drainage flooding. In Boston, the 4.71 inches of rain which fell set a new daily rainfall record at Logan International Airport. The Central Artery and portions of Morrissey Boulevard and Quincy Shore Drive were submerged under feet of water and shut down. There were numerous reports of flooded homes in Newton, Natick, and Framingham, all in Middlesex County. Portions of Route 9 in Framingham were submerged under feet of water. In Worcester County, the 2.35 inches of rain that fell at Worcester Airport set a new daily rainfall record.

Barnstable County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
<b>Bristol County</b>						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
Essex County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
Franklin County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
Hampden County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
Hampshire County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
Middlesex County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
Norfolk County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
Plymouth County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
Suffolk County						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n
<b>Worcester County</b>						
Countywide	16 17	1400EST 0300EST	0	0	Heavy Rai	n





Time Local/ Length Width Persons Damage
Location Date Standard (Miles) (Yards) Killed Injured Property Crops Character of Storm

#### MASSACHUSETTS, Central and East

 $Eastern\ Franklin\ -\ Northern\ Worcester\ -\ Western\ Middlesex\ -\ Western\ Hampden\ -\ Eastern\ Hampden\ Hampden\ -\ Hampden\ Hampden\ -\ Hampden\ Hampden\ Hampden\ -\ Hampden\ Hampden\ Hampden$ MAZ003>005-009>011-019>020-022>023 - Eastern Plymouth - Southern Bristol - Barnstable - Dukes High Wind (G63) 0300EST MAZ002-006>008-Western Franklin - Western Essex - Eastern Essex - Western Hampshire - Southern Worcester - Western Norfolk -012>018-021 Southeast Middlesex - Suffolk - Eastern Norfolk - Northern Bristol - Western Plymouth - Southern Plymouth Strong Wind 16 17 0100EST **Middlesex County** Winchester 2045EST 2100EST 0 Flood Aberjona River MAZ011 Eastern Hampden 2300EST 0000EST 0 Flood

Tropical Storm Floyd brought high winds and torrential rainfall to Massachusetts as it tracked from northern Connecticut into central and northeast Massachusetts during the late evening and early morning hours of the 16th and 17th. Although many areas received strong winds, the strongest winds were confined to the higher elevations of western Massachusetts, as well as Cape Cod and the islands. Gusts of 60 to 70 mph were common along the south coast, but the New Bedford Hurricane Barrier reported a gust to 76 mph. There were many reports of downed trees and power lines in these two areas. Damage was not as widespread throughout central and eastern Massachusetts, where winds generally gusted to 40 to 50 mph.

Floyd also brought torrential rainfall to the Bay State. The heaviest rain fell over the Connecticut River Valley, to the left of the track of the center, where totals of 6 to 10 inches were common. Southwick reported 9.16 inches of rain, Whately had 7.70 inches, and Millers Falls had 6.20 inches. The heavy rain caused the Westfield River at Westfield to rise out of its banks for a brief period. It crested at 13.1 feet at 12:30 am on the 17th, which was just over its 13 foot flood stage. Many small streams rose out of their banks in western Massachusetts and flooded nearby low lying areas. No flood damage was reported.

MAZ020>023 Southern Bristol - Southern Plymouth - Barnstable - Dukes

Westfield River

30 0900EST 0 0 Strong Wind 1400EST

Strong south winds ahead of an approaching cold front gusted to near 50 mph across southeast Massachusetts. The New Bedford Hurricane Barrier reported a gust to 51 mph, while the Buzzards Bay entrance tower, which is elevated, had a gust to 58 mph. Sustained winds averaged 30 to 40 mph over most of the region as well. There were no reports of damage.

### **NEW HAMPSHIRE, Southern**

Cheshire County Countywide	16 17	1700EST 0300EST	0	0	Heavy Rain
Hillsborough County Countywide	16 17	1700EST 0300EST	0	0	Heavy Rain
NHZ011	Chesh 16	ire 2051EST	0	0	Strong Wind

Tropical Storm Floyd brought torrential rainfall and strong winds to southern New Hampshire, as it tracked from Northern Connecticut into central and northeast Massachusetts. Rainfall totals of 3 to 5 inches were common throughout Cheshire and



**Providence County** 

**Washington County** 

Countywide

Countywide

1500EST 0200EST

1500EST 0200EST

16 17

## **National Weather Service** Storm Data and Unusual Weather Phenomena



September 1999 Time Local/ Path Length (Miles) Number of Persons led Injure Estimated Damage Path Width (Yards

#### **NEW HAMPSHIRE, Southern**

Hillsborough Counties, but amounts of 6 to 7 inches were observed in Hillsborough County from Greenville to Weare and

	France	estown. No flooding was rep	orted, aside from low	lying are	as. The Pis	cataquog River at Goffstown came right up to its 9 foot d by Floyd brought down several small trees in Jaffrey.
RHODE ISLAND						
RIZ004	Easter 07	n Kent 0000EST	,	0	0	Record Warmth
	09	2359EST	·	U	U	Record Warmen
	7th br	-	1 degrees set in 198	33. The l	ow tempera	a Warwick. The low temperature of 73 degrees on the tures of 72 degrees on both the 8th and 9th broke the
<b>Bristol County</b>						
Bristol	10	0700EST 1900EST	(	0	0	Heavy Rain
Kent County						
Coventry	10	0700EST 1900EST	(	0	0	Heavy Rain
<b>Newport County</b>						
Portsmouth	10	0700EST 1900EST	(	0	0	Heavy Rain
<b>Providence County</b>						
Cumberland	10	0700EST 1900EST	(	0	0	Heavy Rain
Washington County						
Charleston Beach	10	0700EST 1900EST	(	0	0	Heavy Rain
<b>Providence County</b>						
Smithfield	10	1945EST 2145EST	•	0	0	Flash Flood
	Woon	asquatucket River				
	Island. Johnst	. The heaviest rain fell over	northern Providence (etween 2 and 5 inche	County, ves of rain.	where totals.  In Smithf	the south, produced heavy rainfall throughout Rhode of 6 to 7 inches were reported, including 6.81 inches in iteld, in Providence County, heavy rainfall brought the image was reported
Bristol County						
Countywide	16 17	1500EST 0200EST	•	0	0	Heavy Rain
Kent County						
Countywide	16 17	1500EST 0200EST	(	0	0	Heavy Rain
<b>Newport County</b>						
Countywide	16 17	1500EST 0200EST	•	0	0	Heavy Rain

0

**Heavy Rain** 

**Heavy Rain** 





		Time Local/	Path Length	Path Width	Number Persor		Estim Dan		September 1999
Location	Date	Standard	(Miles)	(Yards)		Injured	Property	Crops	Character of Storm
RHODE ISLAND									
RIZ001-003>005-007	Northy	vest Providence - V	Vestern Kei	ıt - Eastern	Kent - Brist	ol - Nev	wport		
	16	1700EST 2200EST			0	0			Strong Wind
RIZ002-006	Southe	ast Providence - W	ashington						
	16	1723EST 2200EST			0	0			High Wind (G50)
Kent County									
Warwick	16	2232EST			0	0			Flood
	17	1345EST tet River							
	1 awtuz	let Kivei							
<b>Providence County</b>									
Cranston	16 17	2232EST			0	0			Flood
		1345EST tet River							
	1 awtuz								

Tropical Storm Floyd brought high winds and torrential rainfall to Rhode Island, as it tracked from northern Connecticut into central and northeast Massachusetts. Although many areas received strong winds, the highest wind gusts were confined to coastal Washington County, where several trees were downed in Westerly, and also in northern Providence County, where branches, trees, and wires were downed in Smithfield, Woonsocket, and Cumberland.

Widespread rainfall amounts of 2 to 5 inches were reported throughout the Ocean State, with the heaviest amounts falling across the higher terrain of northwest Providence County. As much as 7.12 inches of rain fell in North Smithfield. The torrential rainfall caused the Pawtuxet River to rise out of its banks in Warwick and Cranston. The Pawtuxet went into flood at 1132 pm on the 16th, and crested at 9.4 feet at 515 am on the 17th, just over its 9 foot flood stage. It returned to its banks at 245 pm on the 17th. No flood damage was reported, including throughout the rest of Rhode Island where flooding of low lying areas was common.

RIZ003>007	Wester	n Kent - Eastern Kent - Bristol - Wa	shington - Newpo	rt	
	30	0900EST 1400FST	0	0	Strong Wind

Strong south winds developed across portions of Rhode Island ahead of an approaching cold front. The strongest winds were felt along the coast, where Block Island reported sustained winds over 30 mph. The only wind damage reported was an isolated tree down in Warwick.